

Mainsail: 8001114 Gonzalo Beneteau First36.7 mainV1.des

Design Info
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Design File:
\\NAS\Engineering files\Queenie-Customer Order\Fareast Sails\2024 Orders\Need to be Confirmed\8001114 Gonzalo

Initial Design Date: 6/12/2024
Boat:
Beneteau First 36.7
Client:

Comments:

Design Data
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Main

Measurements

Luff geodesic: 13.711m
Leech geodesic: 14.393m
Foot geodesic: 4.672m
Head geodesic: 0.150m
Upper width (MUW): 0.966m
Three-quarter width (MTW): 1.770m
Half width (MHW): 3.040m
Quarter width (MQW): 3.960m
Foot median: 13.974m
ORC Mainsail area: 38.332m?
Surface area: 39.417m?
Clew height: 0.124m
Mast rake: 0.000m

Battens

Position	Length	Roach	Angle	Luff	Leech	Full
80.000%	1.559m	0.387m	73.068?	10.964m	11.492m	Full
60.000%	2.672m	0.538m	73.068?	8.223m	8.619m	Full
40.000%	3.504m	0.478m	73.068?	5.483m	5.746m	Full
20.000%	4.135m	0.267m	73.068?	2.744m	2.873m	Full

Reefing Points

1, Luff: 1.686m ; Leech: 1.724m ; Offset: 0.000m ; Number Eyelets: 3
2, Luff: 3.968m ; Leech: 4.059m ; Offset: 0.000m ; Number Eyelets: 3

Draft Stripes

1, Luff: 3.427m ; Leech: 3.399m ;
2, Luff: 6.854m ; Leech: 6.953m ;
3, Luff: 10.282m ; Leech: 10.580m ;

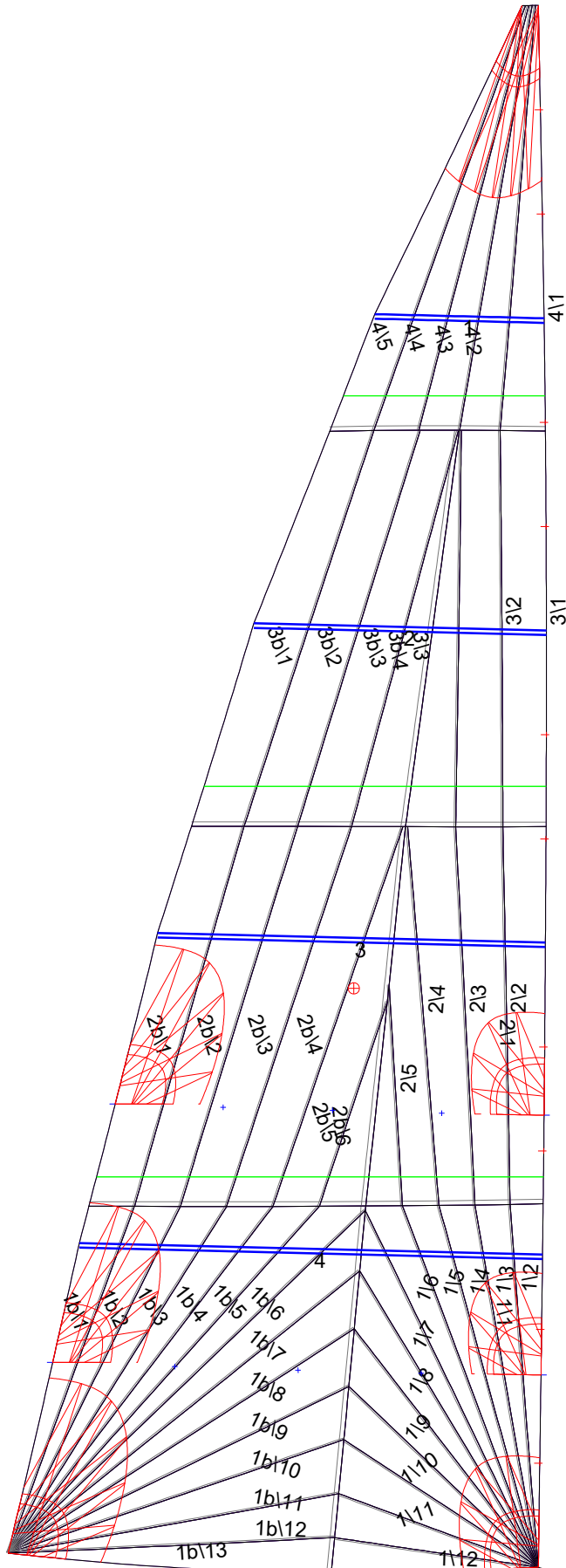
Luff Slides

1, Position: 0.913m
2, Position: 2.086m
3, Position: 3.653m
4, Position: 4.567m
5, Position: 6.394m
6, Position: 7.307m
7, Position: 9.135m
8, Position: 10.049m
9, Position: 11.879m
10, Position: 12.795m

Luff Curve

		Fanned Luff (@ 5.00% [0.233m])	Before BSeam
13.711m,	0.000m	100% (13.711m) :	0.000m
10.353m,	-0.059m	90% (12.340m) :	0.051m
6.861m,	-0.068m	80% (10.969m) :	0.098m
3.431m,	-0.046m	70% (9.598m) :	0.127m
0.000m,	0.000m	60% (8.227m) :	0.139m
		50% (6.856m) :	0.137m
		40% (5.484m) :	0.125m
		30% (4.113m) :	0.105m
		20% (2.742m) :	0.074m
		10% (1.371m) :	0.036m
		0% (0.000m) :	0.000m

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Seam Allowances

Zone:	Split	Radial	Cross
Zone: 1/a	0.040m	0.015m	0.040m
Zone: 1/b	0.040m	0.015m	0.040m
Zone: 2/a	0.040m	0.015m	0.040m
Zone: 2/b	0.040m	0.015m	0.040m
Zone: 3/a	0.040m	0.015m	0.040m
Zone: 3/b	0.040m	0.015m	0.040m
Zone: 4	0.040m	0.015m	0.040m

Edge Excesses

Sail:	Luff	Leech	Foot
Sail:	0.000m	0.000m	0.000m

Total Seam Lengths (m)

Horizontal	9.26
Radial/Vertical	134.93
Bi-Radial Split	10.46

Materials

Material	Area (m ²)	Panels
Material 1	39.48	1\1,1\2,1\3,1\4,1\5 1\6,1\7,1\8,1\9,1\10 1\11,1\12,1b\1,1b\2,1b\3 1b\4,1b\5,1b\6,1b\7,1b\8 1b\9,1b\10,1b\11,1b\12,1b\13 2\1,2\2,2\3,2\4,2\5 2b\6,2b\5,2b\4,2b\3,2b\2 2b\1,3\1,3\2,3\3,3b\4 3b\3,3b\2,3b\1,4\1,4\2 4\3,4\4,4\5